

INTERNATIONAL SEARCH REPORT

Int'l Application No
PCT/IB2005/001055

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B01J35/04 B01J37/02 B01D53/94		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 B01J B01D		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ, WPI Data		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 2002, no. 08, 5 August 2002 (2002-08-05) & JP 2002 095968 A (TOYOTA MOTOR CORP), 2 April 2002 (2002-04-02) cited in the application abstract	1-3
A	PATENT ABSTRACTS OF JAPAN vol. 2003, no. 12, 5 December 2003 (2003-12-05) & JP 2003 260353 A (NGK INSULATORS LTD), 16 September 2003 (2003-09-16) cited in the application abstract	1-3
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
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Date of the actual completion of the international search 2 August 2005		Date of mailing of the international search report 08/08/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Schoofs, B

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/004455 A1 (NAKANISHI TOMOHIKO ET AL) 10 January 2002 (2002-01-10) claim 1; examples -----	1-3
A	EP 1 078 678 A (MITSUBISHI JIDOSHA KOGYO KABUSHIKI KAISHA) 28 February 2001 (2001-02-28) paragraph '0010! - paragraph '0015!; claim 1 -----	1-3
A	EP 0 730 901 A (TOYOTA JIDOSHA KABUSHIKI KAISHA) 11 September 1996 (1996-09-11) the whole document -----	1-3

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Inter Application No
PCT/IB2005/001055

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 2002095968	A	02-04-2002	NONE	
JP 2003260353	A	16-09-2003	AU 2003211828 A1 EP 1484107 A1 WO 03076067 A1 US 2005085382 A1	22-09-2003 08-12-2004 18-09-2003 21-04-2005
US 2002004455	A1	10-01-2002	JP 2002059009 A DE 10126827 A1	26-02-2002 07-03-2002
EP 1078678	A	28-02-2001	JP 2001129402 A JP 2001179098 A EP 1078678 A2 US 2003144132 A1 US 6537946 B1	15-05-2001 03-07-2001 28-02-2001 31-07-2003 25-03-2003
EP 0730901	A	11-09-1996	JP 3362546 B2 JP 8243393 A DE 69622453 D1 DE 69622453 T2 EP 0730901 A1 US 5849661 A	07-01-2003 24-09-1996 29-08-2002 08-05-2003 11-09-1996 15-12-1998